


Form PTO-1449 (Rev. 8-88)		Attorney Docket No. ILL05-040-DIV-US	Serial No. 10/702,676
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant: Yi Lu	
		Filing Date: November 6, 2003	Group: 1635

U.S. PATENT DOCUMENTS							
Examiner Initials*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
TV ↓	Z1	5,459,040	10/1995	Hammock, et al.			
	Z2	5,472,881	12/1995	Beebe, et al.			
	Z3	5,580,967	12/1996	Joyce			
	Z4	5,807,718	9/1998	Joyce, et al.			
	Z5	5,989,813	11/1999	Gerdes			
	Z6	6,706,474	03/2004	Lu, et al.			
	Z7	6,361,944	03/2002	Mirkin, et al.			
	Z8	6,451,535	9/2002	Jenne, et al.			
	Z9	6,040,138	03/2000	Lockhart, et al.			
	Z10	5,593,835	01/1997	Rando, et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials*		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
TV ↓	Y1	WO 96/17086	6/1996	WO				
	Y2	WO 98/27104	6/1998	WO				
	Y3	WO 98/49346	11/1998	WO				
	Y4	WO 99/47704 Abstract only	9/1999	WO				
	Y5	WO 00/26226	5/2000	WO				
	Y6	WO 02/000006	1/2002	WO				
	Y7	WO 03/094838	11/2003	WO				
	Y8	WO 00/58505 Abstract only	10/2000	WO				X
	Y9	GB 2,339,280	1/2000	GB				

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TV	Y10	EP 1,219,708	7/2002	EP				
	Y11	EP 121970	10/1984	EP				
	Y12	WO 99/13338	03/1999	WO				
	Y13	WO 98/39484	09/1998	WO				
	Y14	WO 97/09342	03/1997	WO				

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS	
	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages	
TV	X1	Abstract of Joyce, G., "Design and catalytic activity of enzymic DNA molecules", (1998).
	X4	Allara, D. et al., "Spontaneously organized molecular assemblies. 1. Formation, dynamics and physical properties of n-alkanoic acids adsorbed from solution on an oxidized aluminum surface", Langmuir, vol. 1, no. 1, pp. 45-52, (1985).
	X5	Andreola, M-L., et al., "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", Biochemistry, vol. 40, no. 34, pp. 10087-10094, (2001).
	X6	Bain, C. D., et al., "Modeling organic surfaces with self-assembled monolayers", Angew. Chem. Int. Ed. Engl., vol. 28, no. 4, pp. 506-512, (1989).
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	X10	Biroccio, A., et al., "Selection of RNA aptamers that are specific and high-affinity ligands of the hepatitis C virus RNA-dependent RNA polymerase", Journal of Virology, vol. 76, no. 8, pp. 3688-3696, (2002).
	X11	Blake, D.A., et al., "Antibody-based sensors for heavy metal ions", Biosensors & Bioelectronics, vol. 16, pp. 799-809, (2001).
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	X13	Bock, L.C., et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", Nature, vol. 355, pp. 564-566, (1992).
	X14	Bogden, J.D., et al., "Soil contamination from lead in paint chips", Bulletin of Environmental Contamination & Toxicology, vol. 14, no. 3, pp. 289-294, (1975).
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	X17	Breaker, R.R., "Catalytic DNA: in training and seeking employment", Nature Biotechnology, vol. 17, pp. 422-423, (1999).
	X19	Breaker, R.R., "DNA enzymes", Nature Biotechnology, vol. 15, pp. 427-431, (1997).
	X20	Breaker, R.R., "MOLECULAR BIOLOGY: Making Catalytic DNAs", Science, vol. 290, issue 5499, pp. 2095-2096, (2000).
	X21	Breaker, R.R., et al., "A DNA enzyme that cleaves RNA", Chemistry & Biology, vol. 1, no. 4, pp. 223-229, (1994).
	X22	Breaker, R.R., et al., "A DNA enzyme with Mg ²⁺ -dependent RNA phosphoesterase activity", Chemistry & Biology, vol. 2, no. 10, pp. 655-660, (1995).
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TV ↓	X25	Broude, N.E., "Stem-loop oligonucleotides: a robust tool for molecular biology and biotechnology", Trends in Biotechnology, vol. 20, no. 6, pp. 249-256, (2002).
	X26	Brown, A.K., et al., "A lead-dependent DNAzyme with a two-step mechanism", Biochemistry, vol. 42, no. 23, pp. 7152-7161, (2003).
	X27	Bruesehoff, P.J., et al., "Improving metal ion specificity during In Vitro selection of catalytic DNA", Combinatorial Chemistry & High Throughput Screening, vol. 5, pp. 327-335, (2002).
	X28	Bruno, J.G., et al., "In vitro selection of DNA aptamers to anthrax spores with electrochemiluminescence detection", Biosensors & Bioelectronics, vol. 14, pp. 457-464, (1999).
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	X31	Burdette, S.C., et al., "Fluorescent Sensors for Zn ²⁺ Based on a Fluorescein Platform: Synthesis, Properties and Intracellular Distribution", J. Am. Chem. Soc., vol. 123, no. 32, pp. 7831-7841, (2001).
	X32	Burgstaller, P., et al., "Isolation of RNA aptamers for biological cofactors by in vitro selection", Angew. Chem. Int. Ed. Engl., vol. 33, no. 10, pp. 1084-1087, (1994).
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	X44	Carmi, N., et al., "Cleaving DNA with DNA", Proc. Natl. Acad. Sci. USA, vol. 95, pp. 2233-2237, (1998).
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	X47	Cech, T.R., et al., "Group I ribozymes: substrate recognition, catalytic strategies, and comparative mechanistic analysis", Nucleic Acids and Molecular Biology, vol. 10, pp. 1-17, (1996).
X48	Chaloin, L., et al., "Endogenous expression of a high-affinity pseudoknot RNA aptamer suppresses replication of HIV-1", Nucleic Acids Research, vol. 30, no. 18, pp. 4001-4008, (2002).	
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	X59	Conn, M.M., et al., "Porphyrin Metalation Catalyzed by a Small RNA Molecule", J. Am. Chem. Soc., vol. 118, no. 29, pp. 7012-7013, (1996).
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	X64	Dai, X., et al., "Cleavage of an amide bond by a ribozyme", Science, New Series, vol. 267, issue 5195, pp. 237-240, (1995).
	X65	Davis, J.H., et al., "Isolation of high-affinity GTP aptamers from partially structured RNA libraries", Proc. Natl. Acad. Sci. USA, vol. 99, no. 18, pp. 11616-11621, (2002).
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	X68	Definition of the word "particle" printed from Merriam-Webster online dictionary (www.m-w.com) on June 29, 2004.
	X69	Deo, S., et al., "A Selective, Ratiometric Fluorescent Sensor for Pb ²⁺ ", J. Am. Chem. Soc., vol. 122, no. 1, pp. 174-175, (2000).
	X70	Deroose, V.J., "Two Decades of RNA Catalysis", Chemistry & Biology, vol. 9, pp. 961-969, (2002).
	X71	Didenko, V.V., "DNA probes using fluorescence resonance energy transfer (FRET): Designs and applications", BioTechniques, vol. 31, pp. 1106-1118, (2001).
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	X82	Famulok, M., "Oligonucleotide aptamers that recognize small molecules", Current Opinion in Structural Biology, vol. 9, pp. 324-329, (1999).
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	X89	Fodor, S.P.A., et al., "Light-directed, spatially addressable parallel chemical synthesis", Science, New Series, vol. 251, issue 4995, pp. 767-773, (1991).
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	X118	Illangasekare, M., et al., "Small-molecule-substrate interactions with a self-aminoacylating ribozyme", J. Mol. Biol., vol 268, pp. 631-639, (1997).
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TV ↓	X156	Lehman, N., et al., "Evolution in vitro of an RNA enzyme with altered metal dependence", Nature, vol. 361, pp. 182-185, (1993).
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